

PI-30075 8/30/05

PATENT

Claim Amendments:

1. (Currently amended) An electrical probe comprising:
 - a conductive sleeve defining a bore;
 - a signal-carrying conductor connected to the sleeve;
 - a probe pin movably received in the bore to reciprocate axially within the bore;
 - at least a portion of the probe pin and the sleeve being electrically connected to each other
 - for all conditions of axial reciprocation;
 - the probe pin having a metal free end contact tip extending in a first direction;
 - the probe pin being biased in the first direction; and
 - the probe pin including an electrical component serially intervening between the free end contact tip and an opposed end of the pin, such that the electrical component reciprocates with respect to the sleeve.
2. (Original) The probe of claim 1 wherein the electrical component includes a resistor having substantially greater resistance than the pin.
3. (Original) The probe of claim 2 wherein the electrical component includes a capacitor in parallel with the resistor.
4. (Original) The probe of claim 1 wherein the electrical component includes a capacitor.
5. (Original) The probe of claim 1 wherein the pin has a first conductive portion received within the sleeve, a second conductive portion including the tip, and wherein the electrical component is connected between the first and second portions.
6. (Original) The probe of claim 5 wherein the first and second portions are electrically isolated except for connection by the electrical component.
7. (Previously presented) The probe of claim 5 wherein the first and second portions each have a flange, the flanges being spaced apart and connected to the electrical component with the electrical component attached between the flanges.

PI-30075 8/30/05

PATENT

8. (Original) The probe of claim 7 including a cylindrical sleeve encompassing the flanges and the electrical component.
9. (Original) The probe of claim 5 wherein the second portion has a length less than double its diameter.
10. (Original) The probe of claim 5 wherein the second portion has a length less than 0.50 inch.
11. (Previously presented) An electrical connector comprising:
 - a body;
 - a plurality of probes connected to the body;
 - each probe having a spring biased pin with a metal contact tip; and
 - each pin including an electrical component proximate to the tip and serially intervening between the tip and an opposed end of the pin.
12. (Original) The connector of claim 11 wherein the body is a circuit board having a periphery, and wherein each of the tips extends beyond the periphery.
13. (Previously presented) The connector of claim 11 wherein the electrical component includes a resistor and a capacitor arranged in parallel.
14. (Original) The connector of claim 11 wherein each pin is received in a sleeve mounted electrically connected to a conductor on the body, and wherein each pin axially reciprocates within the sleeve.
15. (Original) The connector of claim 14 wherein each pin has a first conductive portion received within the sleeve, a second conductive portion including the tip, and wherein the electrical component is connected between the first and second portions.
16. (Previously presented) The connector of claim 15 wherein the first and second portions are electrically isolated except for connection by the electrical component.

PT-30075 8/30/05

PATENT

17. (Previously presented) The connector of claim 15 wherein the first and second portions each have a flange, the flanges being spaced apart and connected to the electrical component.
18. (Previously presented) The connector of claim 15 wherein the second portion has a length of less than double its diameter.
19. (Previously presented) The connector of claim 15 wherein the probes are arranged at a first pitch distance, and wherein the distance between the tip and the component is less than the first pitch distance.
20. (Original) The connector of claim 14 including a cable electrically connected to the body, such that each of a plurality of conductors of the cable is independently connected to each probe.
21. (Previously presented) An electrical probe comprising:
a conductive sleeve defining a bore;
a probe pin movably received in the bore and electrically connected to the sleeve;
the probe pin having a free end contact tip extending in a first direction;
the probe pin being biased in the first direction; and
the probe pin including a capacitor.
22. (Previously presented) The probe of claim 21 wherein the probe pin includes a resistor having substantially greater resistance than the pin.
23. (Previously presented) The probe of claim 22 wherein the capacitor is connected in parallel with the resistor.
24. (Previously presented) The probe of claim 21 wherein the pin has a first conductive portion received within the sleeve, a second conductive portion including the tip, and wherein the electrical component is connected between the first and second portions.

PL-30075 8/30/05

PATENT

25. (Previously presented) The probe of claim 24 wherein the first and second portions are electrically isolated except for connection by the electrical component.
26. (Previously presented) The probe of claim 24 wherein the first and second portions each have a flange, the flanges being spaced apart and connected to the electrical component.
27. (Previously presented) The probe of claim 26 including a cylindrical sleeve encompassing the flanges and the electrical component.
28. (Previously presented) The probe of claim 24 wherein the second portion has a length less than double its diameter.
29. (Previously presented) The probe of claim 24 wherein the second portion has a length less than 0.50 inch.